Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims.

1-33. (canceled)

- 34. (currently amended) The An isolated polynucleotide of olaim 32 which encodes at least 50 contiguous amino acid residues of SEQ ID NO:627.
- (previously presented) The isolated polynucleotide which is fully complementary to the
 polynucleotide of claim 34.
- (previously presented) An isolated polynucleotide consisting of at least 100 contiguous nucleotides of SEO ID NO:625.
- (previously presented) The isolated polynucleotide which is fully complementary to the
 polynucleotide of claim 36.
- (previously presented) The isolated polynucleotide of claim 36 consisting of at least 300 contiguous nucleotides of SEQ ID NO:625.
- (previously presented) The isolated polynucleotide which is fully complementary to the polynucleotide of claim 38.
- (previously presented) The isolated polynucleotide of claim 38 consisting of the full length sequence of SEQ ID NO:625.

41-43. (canceled)

- 44. (currently amended) A method of detecting Borrelia nucleic acids in a biological sample comprising:
 - (a) contacting the sample with the nucleic acid of claim 32 34, under conditions such that hybridization occurs, and
 - (b) detecting hybridization of said nucleic acids to the one or more Borrelia nucleic acid

sequences present in the biological sample.

- 45. (previously presented) A method of detecting Borrelia nucleic acids in a biological sample comprising:
 - (a) contacting the sample with the nucleic acid of claim 36, under conditions such that hybridization occurs, and
 - (b) detecting hybridization of said nucleic acids to the one or more Borrelia nucleic acid sequences present in the biological sample.